mini-BRUTE MOSQUITO

- FANTASTIC PERFORMANCE
- INSTANT LIFT-OFF

SKILL LEVEL 1

1—Beginner 2—Intermediate 3—Craftsman 4—Advanced 5—Expert

SPECIFICATIONS

Length 3.9'' (9.9cm.)	Weight 0.1 oz. (2.83 g.)
Body Dia. 0.541'' (13.73mm.)	Featherweight Recovery

RECOMMENDED ENGINES

1/4A3-2T 1/2A3-4T A3-6T

Engines and launcher not included.

TK-1
#0801

ESTES INDUSTRIES
PENROSE, COLO. 81240

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Recommended for Ages 10 to Adult. Adult Supervision Suggested for Those Under 12 Years of Age When Flying Model Rockets.

1 MODEL KIT
Paint and Glue not included.
1 MODÈLE RÉDUIT
Peinture et Colle non comprises.

Flying Model Rocket

FLY ESTES

Model Rockets

A Rewarding Hobby for Ages 10 to Adult.

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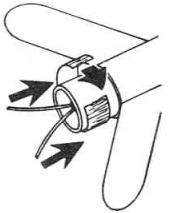
COUNTDOWN CHECKLIST



☐ **11** Select an engine and install an igniter as directed in the engine instructions. Insert engine into rocket. If necessary, apply a piece of tape to the engine to keep it from falling out of the rocket.

☐ **10** Disarm the launch panel.

☐ **9** Lower the rocket into position on the launch rod or rail. Clean the micro clips, then clip one to each lead of the igniter. The clips must not touch each other and the igniter leads must not cross. The rocket may be supported with a scrap of wood or an empty engine casing to make it easier to attach the clips and to keep the clips from touching the blast deflector plate and short circuiting.

☐ **8** Clear the launch area, alert recovery crew and trackers.

☐ **7** Check for low flying aircraft and unauthorized persons into recovery area.

☐ **6** Arm the launch panel.

-5 -4 -3 -2 -1 LAUNCH!!

MISFIRE PROCEDURE

Occasionally the igniter will heat and burn in two without igniting the engine. This is almost always caused by a failure to install it correctly. Disarm the launch panel, remove the model, clean the igniter residue from the nozzle, and install a new igniter. Follow the launching procedure again.

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MOSQUITO TK-1

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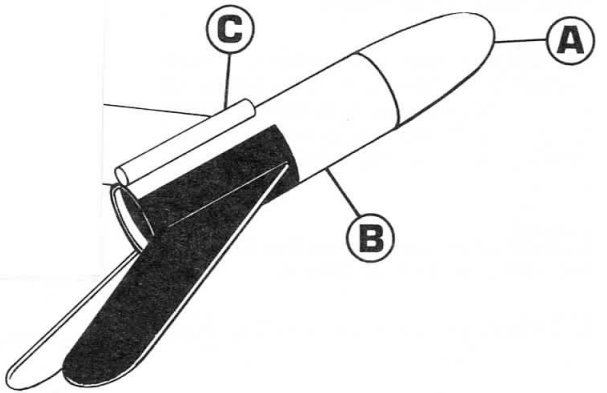


PARTS LIST

A 1 Nose Cone.....BNC-5V

B 1 Body Tube.....BT-5BJ

C 1 Launch Lug..... LL-2A

D 1 Fin Sheet..... BFS-20B

In addition to the materials above you will need scissors, a sharp knife or single edge razor blade, white glue, sandpaper and paint or dope.

RECOVERY NOTE

The MOSQUITO employs the featherweight recovery system in which the rocket expells its engine at peak altitude. The rocket returns to earth safely because it is very light and has a relatively high frontal area -- its force on landing is approximately equal to that of a one ounce weight dropped from ten inches above the ground. The engine returns in a safe manner since it is not stable and the drag on a tumbling object is quite high.

ASSEMBLY INSTRUCTIONS

☒ **1** Cut out marking guide and mark body as directed.

☒ **2** Cut out fin pattern. Trace around it to mark 3 fins on balsa as shown. Cut out the fins with a sharp blade. Sand root edge square; sand leading and trailing edges to airfoil shown.

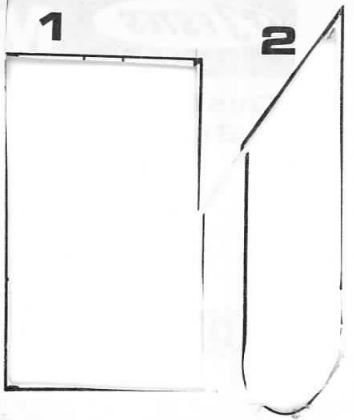
☒ **3** Glue the fins to the body on the lines marked in Step 1.

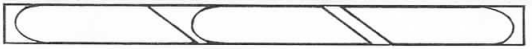
☒ **4** Glue the nose into the front of the body.

☒ **5** Glue the launch lug to the body and a fin as shown.

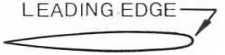
☐ **6** After the first glue on the fins has dried, apply a bead of glue to each fin-body corner and smooth out. Support model horizontally while the glue dries.

☐ **7** To finish, apply one or more coats of sanding sealer to balsa surfaces (after all glue is dry), sanding smooth when each coat is dry. Paint your MOSQUITO a bright color.

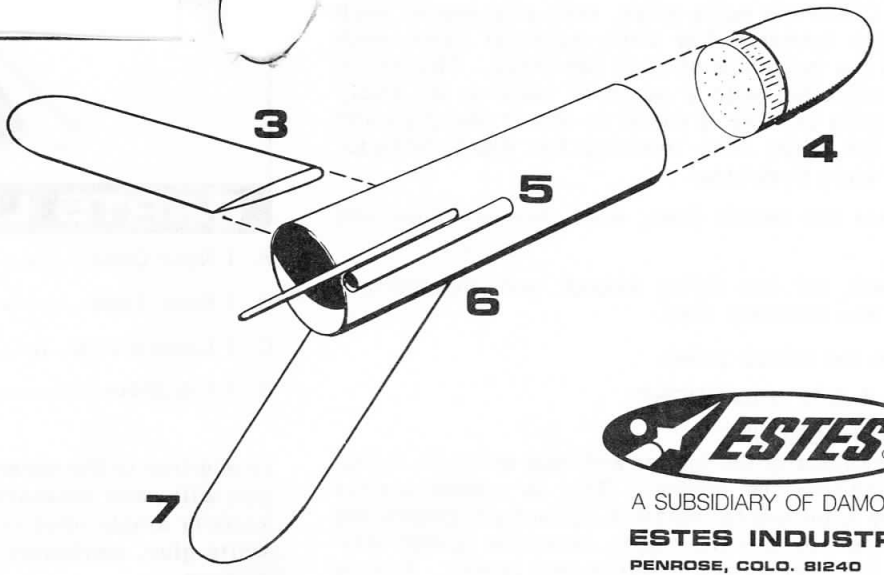




TRACE PATTERN ON BALSA AS SHOWN



SAND FINS TO AIRFOIL SHAPE



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